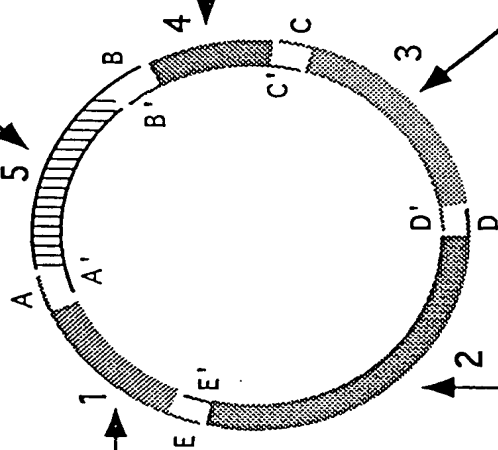
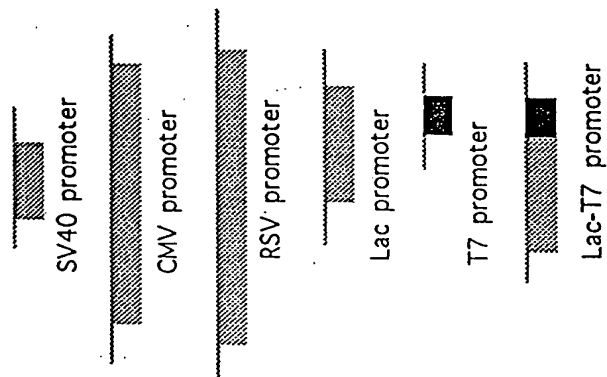


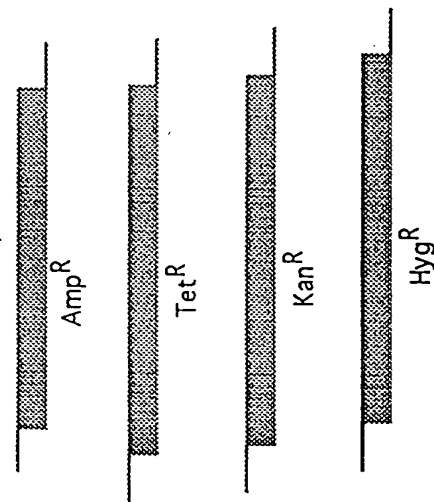
5. Gene of Interest



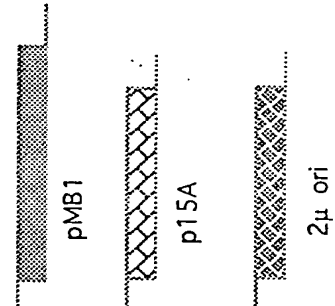
1. Promoter Category



2. Selectable Marker Category



3. Ori Category

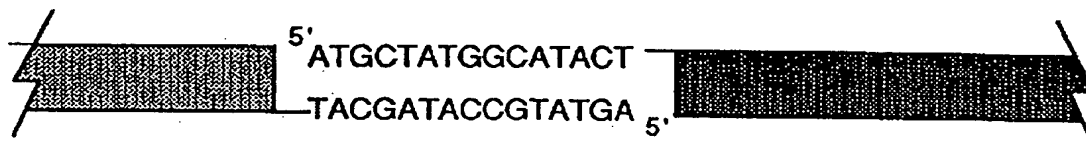


4. Terminator Category

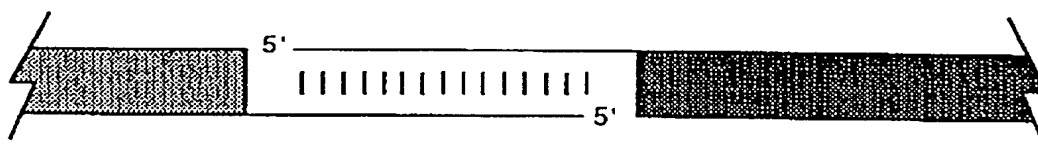


FIGURE 1

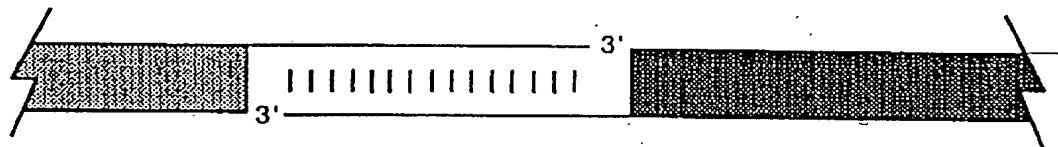
**A. Non-palindromic Compatible Overhangs**



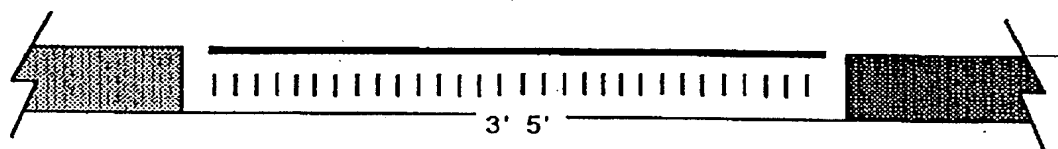
**B. 5' Compatible Overhangs**



**C. 3' Compatible Overhangs**



**D. Bridge Compatible with 3' and 5' Overhangs**



**E. Adaptor Compatible 3' Overhangs**



**FIGURE 2**

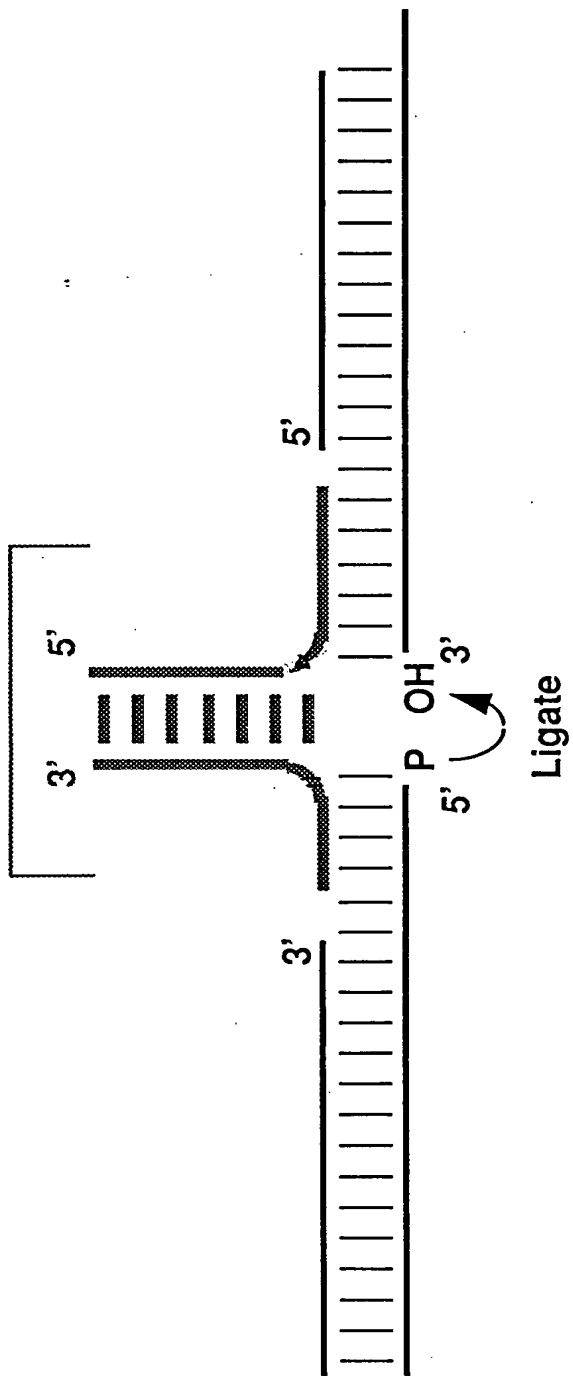
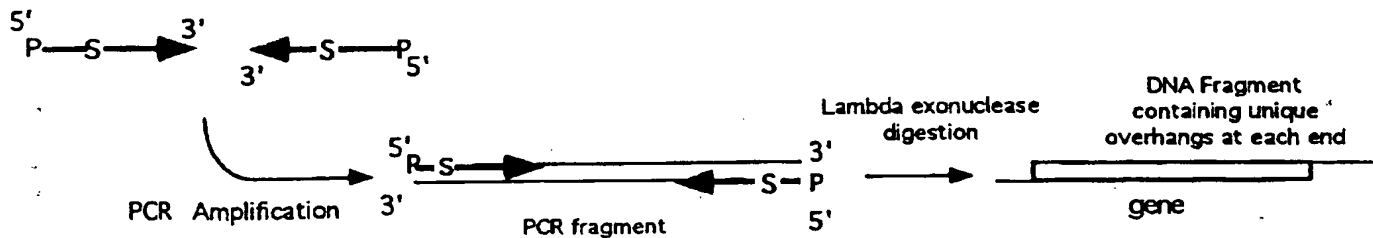


Figure 3

# OVERVIEW OF PCR CLONING AND EXPRESSION SYSTEM

Synthesis of oligonucleotides  
for PCR amplification  
containing internal thiol sites



A--Promoter/ start site

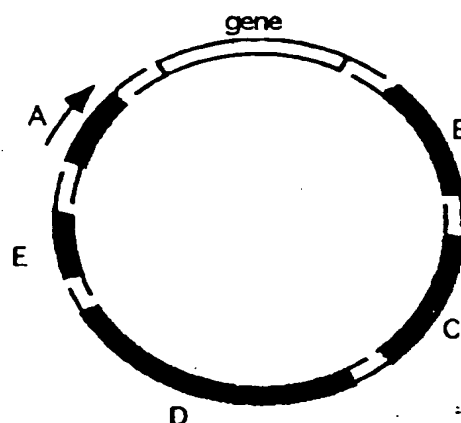
B--Affinity tag/transcriptional terminator

C--Bacterial origin of replication

D--Antibiotic Resistance/Selectable marker

E--M13 ori

Anneal fragments  
containing unique  
compatible overhangs



Induction and  
Expression of gene

Crude Protein

(genetic selection of gene fusion  
ie. AP gene fusion)

Affinity purification

(Proteolytic Cleavage)

Purified Protein

Figure 4

figure 5

